COMP 412, Fall 2019
Compiler Construction for Undergraduates

Instructors: Keith D. Cooper, keith@rice.edu, DH 2065, x6013

Michael G. Burke, mgb2@rice.edu, DH 3054, x4476

Assistant: Annepha Hurlock, annepha@rice.edu

Office hours will be posted on the class discussion site.

Course Objectives: Student will develop a fundamental understanding of the issues that arise in program translation, including syntax analysis, translation, and rudimentary program optimization. Exam questions will be drawn from both the book & the lectures.

The programming assignments will help students develop facility with the creation and manipulation of abstract program representations.

Assignments & Grading Policies: The course will have three pop quizzes, a midterm exam, a scheduled final exam, and three programming assignments, or "labs". Each lab has a detailed handout that describes the assignment in depth. The final grade will be computed as follows:

Exams		***Programming Assignments***	
Pop quizzes	10 %	Lab 1	10 %
Midterm exam	20 %	Lab 2	20 %
Final exam	20 %	Lab 3	20 %

The exams will be scheduled, closed-book, closed-notes, closed device tests. Quizzes and exams will be administered under tRice's Honor Code.

Students are encouraged to discuss the programming assignments with each other. However, all code submitted for the lab, other than standard libraries, must be written by the individual student. A more detailed statement on the honor policy appears in each lab handout. (Questions on the honor policy should be posted to the discussion site.)

Textbook: *Engineering a Compiler, 2nd Ed.,* by Cooper and Torczon

Discussion Site: COMP 412 will use Piazza for questions and discussion. If you do not receive an invitation to Piazza, send email to one of the instructors.

Course Web Site: http://www.clear.rice.edu/comp412
Lecture notes, handouts for the programming assignments, and announcements will be posted to the web site. Any changes to policies will be posted on the course web site and on Piazza.

Any student with a disability requiring accommodations in this class should contact one of the instructors or Rice's Coordinator for Disability Support Services, Alan Reynolds.

A student may receive credit for one of COMP 412 and COMP 506, but not both.